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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/031,396	02/22/2002	Junichi Miyazaki	2002-0053	2281
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.			EXAMINER	
			HILL, MYRON G	
SUITE 800 WASHINGTON, DC 20006-1021		ART UNIT	PAPER NUMBER	
	.,		1648	
			MAIL DATE	DELIVERY MODE
			10/12/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
:	10/031,396	MIYAZAKI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Myron G. Hill	1648				
The MAILING DATE of this communication app	l •	orrespondence address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 31 Ju	ily 2007.					
• •	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-12 is/are pending in the application.						
4a) Of the above claim(s) <u>5-8 and 12</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4 and 9-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority documents have been received in Application No.						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list	or the certified copies not receive	· · ·				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary					
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Date 5) Notice of Informal F	ate Patent Application (PTO-152)				
3) [_] Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

This action is in response to the papers filed 7/31/07.

Claims 1-4, and 9-11 are under consideration in this action.

Rejections Maintained

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1- 4 and 9- 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graham, Fu et al., and Chen et al. or Snaith et al. (previously cited) in light of Graham et al. (Methods in Mol Bio, item AO on the 2/22/02 IDS).

Applicant argues that the cited references fail to disclose or teach the recited sizes of the structural components, that Graham differs from the instant invention, that Graham does not teach the size requirements and that the vector of Graham cannot contain the recited structure of the claims, that the instant inventions overcomes two problems recognized and solved by applicant (high efficiency of recombination and deletion of cosmid sequences), that Fu et al. only solve the first problem (efficiency), and Chen et al. and/or Snaith et al. fail to disclose all the structural elements or make up

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the deficiencies in the other references. Also, Graham *et al.* does not teach deletions in E1 and E3 except in prophetic examples.

Applicant's arguments have been fully considered and not found persuasive.

Several of the points were addressed in the previous Office Action.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant is arguing the teachings of Graham without considering the teachings of the other cited art. The teachings of Graham show that the maximum size adenovirus to be packaged is about 38Kb. One of ordinary skill in the art would know that that is the amount that can be packaged, not the limit of the size of the vector used in manipulation in bacteria with the cosmid sequence.

As stated previously, Fu *et al.* teach an efficient system for manipulating adenovirus and Chen *et al.* teach a system for removing unwanted DNA in adenovirus.

One of ordinary skill in the art would know that E1 and E3 deletions have been made, the fact that the examples of Graham *et al.* appear to be prophetic do not alter the obviousness of the rejection. If applicant has some evidence that the prior art teaching is not enabled, then that should be presented to overcome the art.

Applicant has not argued that there are unexpected results.

Thus, the rejection is maintained.

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Conclusion

No claim is allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myron G. Hill whose telephone number is 571-272-0901. The examiner can normally be reached on 8:30 am-5 pm Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bruce Campell can be reached on 571-272-0974. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Myron G. Hill Patent Examiner 2 Oct 2007

> BRUCE R. CAMPELL, PRES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1600